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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/827,175	04/06/2001	Michael Sokol	023925-00003	4372
32294	7590	09/08/2004	EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			YAO, KWANG BIN	
14TH FLOOR			ART UNIT	
8000 TOWERS CRESCENT			PAPER NUMBER	
TYSONS CORNER, VA 22182			2667	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/827,175

Applicant(s)

SOKOL ET AL.

Examiner

Kwang B. Yao

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/5/03, 9/6/01</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Erimli et al. (US 6,760,341).

Erimli et al. discloses a network switching system comprising the following features: as depicted in Fig. 2, regarding claim 1, a first switch (22a) having a FIRST MEMORY INTERFACE (44a) and a first expansion port (30); an expansion bus (32) having a first expansion bus (32) interface and a second expansion bus (32) interface, said first expansion bus (32) interface connected to said first expansion port (30); and a second switch having a SECOND MEMORY INTERFACE (44b) and a second expansion port (30), said second expansion port (30) connected to said second expansion bus (32) interface, thereby connecting said first switch (22a) to said second switch (22b), wherein said expansion bus (32) allows said first switch (22a) to directly access said SECOND MEMORY INTERFACE (44b) through said second switch (22b) and said second switch (22b) to directly access said FIRST MEMORY INTERFACE (44a) through said first switch (22a); regarding claim 2, wherein said first expansion port (30) further comprises a first proxy component (28) that enables data packets to

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be read from said first memory (36a) and written to said first memory (36a) by said second switch through said expansion bus (32), and wherein said second expansion port (30) further comprises a second proxy component (28) that enables data packets to be read from said second memory (36b) and written to said second memory (36b) by said first switch (22a) through said expansion bus (32); regarding claim 3, wherein said FIRST MEMORY INTERFACE (44a) is configured to be connected to a first external memory (36a, 36b) and said SECOND MEMORY INTERFACE (44b) is configured to be connected to a second external memory (36a, 36b); regarding claim 4, further comprising a command bus (Fig. 2, REF 38, column 6, lines 9-15) connected between said first switch (22a) and said second switch (22b) allowing commands to be communicated between said first switch (22a) and said second switch (22b); regarding claim 5, a switch for transmitting and receiving data packets comprising: a memory interface that accesses memory; and an expansion port (30) connected to said memory interface, wherein said expansion port (30) is configured to be connected to an expansion bus (32) connected to another switch thereby connecting two switches together allowing for sharing of memory; regarding claim 6, wherein said expansion port (30) further comprises a proxy component (28) that when activated allows data packets to be read from said memory and written to said memory from another switch through said expansion port (30); regarding claim 7, wherein said memory interface is configured to access external memory (36a, 36b); regarding claim 8, further comprising a command bus (Fig. 2, REF 38, column 6, lines 9-15) interface configured to be connected to another switch allowing commands to be communicated between switches; regarding claim 9, a system of network of switches, said system comprising: a first switch (22a) having a first memory (36a) and a first expansion port (30); an expansion bus (32) having a first

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expansion bus (32) end and a second expansion bus (32) end, said first expansion bus (32) end connected to said first expansion port (30); and a second switch (22b) having a second memory (36b) and a second expansion port (30), said second expansion port (30) connected to said second expansion bus (32) end, thereby connecting said first switch (22a) to said second switch (22b), wherein said expansion bus (32) allows said first switch (22a) to directly access said second memory (36b) through said second switch (22b) and said second switch (22b) to directly access said first memory (36a) through said first switch (22a); regarding claim 10, wherein said first expansion port (30) further comprises a first proxy component (28) that when activated allows data packets to be directly read from said first memory (36a) and directly written to said first memory (36a) by said second switch (22b) through said expansion bus (32), and wherein said second expansion port (30) further comprises a second proxy component (28) that when activated allows data packets to be directly read from said second memory (36b) and directly written to said second memory (36b) by said first switch (22a) through said expansion bus (32); regarding claim 11, wherein said first memory (36a) is external memory (36a, 36b) and said second memory (36b) is external memory (36a, 36b); regarding claim 12, further comprising a command bus (Fig. 2,, REF 38, column 6, lines 9-15) connected between said first switch (22a) and said second switch (22b) allowing commands to be communicated between said first switch (22a) and said second switch (22b); regarding claim 13, a method for sharing memory between a first switch (22a) and a second switch (22b) connected to each other by an expansion bus (32) comprising the steps of: sending a command from a first switch (22a) to a second switch (22b) that said first switch (22a) is about to perform a memory read or write; reading or writing a portion of packet data to local memory of said first switch (22a); and reading or writing another

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portion of packet data to alternate memory through said second switch (22b) using said expansion bus (32); regarding claim 14, wherein said step of sending a command further comprises configuring said second switch (22b) to be a proxy allowing said packet data to be read from said second memory (36b) or written to said second memory (36b) by said first switch (22a) through said expansion bus (32); regarding claim 15, wherein said step of sending a command comprises the step of sending said command across a command bus (Fig. 2,, REF 38, column 6, lines 9-15) connected between said first switch (22a) and said second switch (22b) allowing commands to be communicated between said first switch (22a) and said second switch (22b). See Abstract, and column 4-6.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Smith (US 6,011,793) discloses a switching apparatus.

Kametani (US 5,960,458) discloses a shared memory system.

Hayano (US 4,903,259) discloses a TDM switching network.

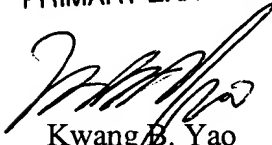
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwang B. Yao whose telephone number is 571-272-3182. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KWANG BIN YAO
PRIMARY EXAMINER



Kwang B. Yao
August 26, 2004